

Appendix E

Cormorant/Gull/Pelican REA Details

INJURY CALCULATION

Species	Total Estimated Dead	Bird-Year Multiplier	Total Lost Bird-Years
Brown Pelican	3	6.20	19
Brandt's Cormorant	23	4.44	102
Double-cr. Cormorant	25	4.44	111
Pelagic Cormorant	8	4.44	36
cormorant, sp.	4	4.44	18
Western Gull	52	4.50	234
Glaucous-winged Gull	6	4.50	27
gull, sp. (large)	18	4.50	81
TOTAL	139		627

See Appendix C for derivation of bird-year multipliers.

CREDIT CALCULATION (projected restoration benefits *per nest*)

Year	Increased Fledges	Increased Bird-Years	Discounted to 1998
2003	0	0	0
2004	0.78	2.50	2.4
2005	0.78	2.50	2.3
2006	0.78	2.50	2.2
2007	0.78	2.50	2.2
2008	0.78	2.50	2.1
2009	0.78	2.50	2.0
2010	0.78	2.50	2.0
2011	0.78	2.50	1.9
2012	0.78	2.50	1.9
2013	0.78	2.50	1.8
2014	0.78	2.50	1.8
Continues to 2054.	Based on 0.78 fledges per nest.	Based on 3.2 bird-years per fledge (life expectancy of a fledge)	Discounted at 3% per year
Total:			56

Number of nests needed for project would be $627/56 = 11$.